

# Parasitology Research

Founded as  
Zeitschrift für  
Parasitenkunde

Volume 75 · 1988/89

---

**Editors**

**B.M. Honigberg   H. Mehlhorn   W. Wülker**

**Editorial Board**

M. Aikawa, Cleveland	W. Kunz, Düsseldorf
I.B.R. Bowman, Edinburgh	R.D. Lumsden, New Orleans
A. Capron, Lille	D. McLaren, London
B. Chobotar, Berrien Springs	E.A. Meuleman, Amsterdam
P.A. D'Alesandro, New York	R. Nussenzweig, New York
D.D. Despommier, New York	H.J. Risse, Berlin
J. Dönges, Würzburg	L.S. Roberts, Lubbock
J. Eckert, Zürich	H.J. Saz, Notre Dame
J.K. Frenkel, Kansas City	H.M. Seitz, Bonn
K.T. Friedhoff, Hannover	J.D. Smyth, London
P. Götz, Berlin	E.J.L. Soulsby, Cambridge
H.-G. Heidrich, Martinsried	K.D. Spindler, Düsseldorf
F. Hörchner, Berlin	R.C.A. Thompson, Murdoch
L. Jenni, Basel	G.M. Urquhart, Glasgow
P. Köhler, Zürich	K. Vickerman, Glasgow



Springer International

# Parasitology Research

was founded in 1928. Volumes 1–7 named “Zeitschrift für wissenschaftliche Biologie“, Dept. F. “Zeitschrift für Parasitenkunde“ edited by A. Hase. From Volume 21 edited by G. Piekarski, from Vol. 44 (1974) edited by B.M. Honigberg and G. Piekarski; from Vol. 45 (1974) edited by B. M. Honigberg, G. Piekarski and W. Wülker; from Vol. 53 (1977) edited by J. Eckert, B.M. Honigberg, G. Piekarski and W. Wülker; from Vol. 67 (1982) edited by J. Eckert, B.M. Honigberg, H. Mehlhorn, G. Piekarski, H.M. Seitz and W. Wülker; from Vol. 68 (1982) edited by B.M. Honigberg, H. Mehlhorn, H.M. Seitz and W. Wülker; from Vol. 73 named “Parasitology Research“ edited by B.M. Honigberg, H. Mehlhorn and W. Wülker.

Organ der Deutschen Gesellschaft für Parasitologie

---

Submission of a manuscript implies: that the work described has not been published before (except in the form of an abstract or as part of a published lecture, review, or thesis); that it is not under consideration for publication elsewhere; that its publication has been approved by all coauthors, if any, as well as by the responsible authorities at the institute where the work has been carried out; that, if and when the manuscript is accepted for publication, the authors agree to automatic transfer of the copyright to the publisher; and that the manuscript will not be published elsewhere in any language without the consent of the copyright holders.

All articles published in this journal are protected by copyright, which covers the exclusive rights to reproduce and distribute the article (e.g., as offprints), as well as all translation rights. No material published in this journal may be reproduced photographically or stored on microfilm, in electronic data bases, video disks, etc., without first obtaining written permission from the publisher.

The use of general descriptive names, trade names, trademarks, etc., in this publication, even if not specifically identified, does not imply that these names are not protected by the relevant laws and regulations.

While the advice and information in this journal is believed to be true and accurate at the date of its going to press, neither the authors, the editors, nor the publisher can accept any legal responsibility for any errors or omissions that may be made. The publisher makes no warranty, express or implied, with respect to the material contained herein.

*Special regulations for photocopies in the USA:* Photocopies may be made for personal or in-house use beyond the limitations stipulated under Section 107 or 108 of U.S. Copyright Law, provided a fee is paid. This fee is US \$0.20 per page, or a minimum of US \$1.00 if an article contains fewer than five pages. All fees should be paid to the Copyright Clearance Center, Inc., 21 Congress Street, Salem, MA 01970, USA, stating the ISSN 0044-3255, the volume, and the first and last page numbers of each article copied. The copyright owner's consent does not include copying for general distribution, promotion, new works, or resale. In these cases, specific written permission must first be obtained from the publisher.

Printers: Universitätsdruckerei H. Stürtz AG, Würzburg  
© by Springer-Verlag Berlin Heidelberg 1988/89



# Contents

- Abdallah MA, Abdel-Hafez SK, Al-Yaman FM: *Trypanosoma acomys* (Wenyon, 1909): reproductive forms and course of parasitemia in the natural host *Acomys cahirinus* (Desmarest, 1819) 439
- Abdel-Ghaffar F → Marzouk M
- Abdel-Hafez SK → Abdallah MA
- Abe K → Yamane Y
- Aisien SO, Ogiji EE: Observations on the lipids of *Oochoristica agamae* (Ces-toda) 307
- Akao S, Yamakami Y, Nishiyama M, Tanaka M: Aminopeptidase activity in the brains of mice with chronic *Toxoplasma gondii* infections 186
- Aly AH → Ramadan MM
- Al-Yaman FM → Abdallah MA
- Ancelle T → Dupouy-Camet J
- Ancelle T → Fourestié V
- Anthoons JAMS, Van Marck EAE, Gigase PLJ, Stevens WJ: Immunohistochemical characterization of the mononuclear cells in the brain of the rat with an experimental chronic *Trypanosoma brucei gambiense* infection 251
- Araki T → Takahashi Y
- Araújo-Jorge TC, Sampaio EP, De Souza W, Nazareth Meirelles M de: *Trypanosoma cruzi*: the effect of variations in experimental conditions on the levels of macrophage infection in vitro 257
- Arellano J → Kretschmer RR
- Barthe D → Rondelaud D
- Bauer C → Diesing L
- Bayne CJ → Dikkeboom R
- Bazin H → Pérez O
- Beaumelle BD → Vial HJ
- Becker M → Kalinna B
- Becker W → Rupprecht H
- Bergh SG van den → Oordt BEP van
- Bernard F → Grellier P
- Bhisutthibhan J → Thanomsu BW
- Bilge FH → Kadipasaoglu AK
- Bohn A → Dorzok U
- Bonaldo MC → Soares MJ
- Bortoletti G, Gabriele F, Palmas C: Kinetics of mast cells, eosinophils and phospholipase B activity in the spontaneous-cure response of two strains of mice (rapid and slow responder) to the cestode *Hymenolepis nana* 465
- Bougnoux ME → Dupouy-Camet J
- Bougnoux ME → Fourestié V
- Brockelman CR → Mackenstedt U
- Brockelman CR → Thanomsu BW
- Brossard M → Girardin P
- Brossard M → Rutti B
- Brown DS → Southgate VR
- Bruyn B de → Srivastava VML
- Buchmann K: Temperature-dependent reproduction and survival of *Pseudodactylogyrus bini* (Monogenea) on the European eel (*Anguilla anguilla*) 162
- Bylund G → Yamane Y
- Capron A → Pérez O
- Capron M → Pérez O
- Carmichael IH → Soll MD
- Castro EM → Kretschmer RR
- Chadwick CJ, Semoff S, Hommel M: Localisation of *Plasmodium chabaudi* antigens by cryomicrotomy using monoclonal antibodies and the immunogold-silver staining method for light microscopy 247
- Chatterjee KH → Zahner H
- Christensen NO, Odaibo AB, Simonsen PE: *Echinostoma* population regulation in experimental rodent definitive hosts 83
- Conradt U, Peters W: Investigations on the occurrence of pinocytosis in the tegument of *Schistocephalus solidus* 630
- Cordero-Del-Campillo M → Diez-Baños P
- Coussement W → Verheyen A
- Dagger F → Hernández AG
- De Souza W → Araújo-Jorge TC
- Dedet J-P → Roussilhon C
- Demeš P, Pindak FF, Wells DJ, Gardner WA Jr: Adherence and surface properties of *Tritrichomonas mobilensis*, an intestinal parasite of the squirrel monkey 589
- Diesing L, Heydorn AO, Matuschka FR, Bauer C, Pipano E, Wall T de, Potgieter F: *Besnoitia besnoiti*: Studies on the definitive host and experimental infections in cattle 114
- Diez-Baños N → Diez-Baños P
- Diez-Baños P, Morondo-Pelayo MP, Diez-Baños N, Cordero-Del-Campillo M, Núñez-Gutiérrez MC: The experimental receptivity of *Helicella (Helicella) itala* and *Cepaea nemoralis* (Mollusca, Helicidae) to larvae of *Muellerius* sp. and *Neostrongylus linearis* (Nematoda, Protostrongylidae) from chamois (*Rupicapra rupicapra*) 488
- Dikkeboom R, Bayne CJ, Knaap WPW van der, Tijnagel JMGH: Possible role of reactive forms of oxygen in in vitro killing of *Schistosoma mansoni* sporocysts by hemocytes of *Lymnaea stagnalis* 148
- Dissous C → Dubremetz JF
- Dorzok U, Bohn A, König W: Proteins of *Nippostrongylus brasiliensis* analyzed by immunoblotting 482
- Dubremetz JF, Ferreira E, Dissous C: Isolation and partial characterization of rhoptries and micronemes from *Eimeria nieschulzi* zoites (Sporozoa, Coccidia) 449
- Dubremetz JF → Pohl U
- Dubremetz J-F → Tomavo S
- Dupouy-Camet J, Bougnoux ME, Ancelle T, Fagard R, Lapiere J: Antigenic characteristics of two strains of *Trichinella spiralis* isolated during the horse-meat-related outbreaks of 1985 in France 79
- Eckert J, Thompson RCA, Michael SA, Kumaratilake LM, El-Sawah HM: *Echinococcus granulosus* of camel origin: development in dogs and parasite morphology 536
- Eckert J → Worbes H
- Eklöv H → Webb RA
- Eling WMC → Schettters TPM
- El-Matbouli M, Hoffmann R: Experimental transmission of two *Myxobolus* spp. developing bisporogeny via tubificid worms 461
- Elowni EE → Nurelhuda IEM
- El-Sawah HM → Eckert J
- Elwasila M: *Haemogregarina* sp. (Apicomplexa: Adeleorina) from the gecko *Tarentola annularis* in the Sudan: fine structure and life-cycle trials 444
- Enders B → Raether W
- Endo T, Yagita K, Yasuda T, Nakamura T: Detection and localization of actin in *Toxoplasma gondii* 102
- Endo T → Yasuda T
- Entzeroth R → Pohl U
- Entzeroth R → Tomavo S
- Fagard R → Dupouy-Camet J
- Fagerholm H-P: Incubation in rats of a nematodal larva from cod to establish its specific identity: *Contracaecum osculatum*, (Rudolphi) 57
- Fairweather I → Mahendrasingam S
- Fairweather I → McCullough JS
- Fairweather I → Skuce PJ
- Fandeur T → Roussilhon C
- Ferguson DJP, Hutchison WM, Pettersen E: Tissue cyst rupture in mice chronically infected with *Toxoplasma gondii*. An immunocytochemical and ultrastructural study 599
- Ferreira E → Dubremetz JF
- Fiori MG, Lowndes HE: Histochemical study of *Sarcocystis* sp. intramuscular cysts in gastrocnemius and soleus of the cat 123
- Fok É → Kassai T
- Fourestié V, Bougnoux ME, Ancelle T, Liance M, Roudot-Thoraval F, Naga H, Paireon-Pennachioni M, Rauss A, Lejone JL: Randomized trial of albendazole versus tiabendazole plus flubendazole during an outbreak of human trichinellosis 36
- Fournier A, Pages JR, Touassem R, Mouahid A: Can tegumental morphology be used as a taxonomic criterion between *Schistosoma haematobium*, *S. intercalatum*, and *S. bovis*? 375
- Fucharoen S → Thanomsu BW
- Fujii T: Characterization of the antigens that induce the production of antibodies in mice immediately after infection with *Angiostrongylus cantonensis* 636



- Fujino T → Matsui T  
 Fujita K → Horii Y  
 Furuki J → Takahashi Y
- Gabriele F → Bortoletti G  
 Gardner WA Jr → Demeš P  
 Geyer E → Kalinna B  
 Ghaffar FA, Heydorn AO, Mehlhorn H: The fine structure of cysts of *Sarcocystis moulei* from goats 416  
 Ghatak S → Singh RP  
 Gigase PLJ → Anthoos JAMS  
 Girardin P, Brossard M: Effects of cyclosporin A on humoral immunity to ticks and on cutaneous immediate and delayed hypersensitivity reactions to *Ixodes ricinus* L. salivary-gland antigens in re-infested rabbits 657  
 Gold D: Delayed-type hypersensitivity to *Entamoeba histolytica* in mice and hamsters: a comparison 335  
 Goldenberg S → Soares MJ  
 Gothe R → Kalvelage H  
 Grelaud G → Pernin P  
 Grellier P, Picard I, Bernard F, Mayer R, Heidrich H-G, Monsigny M, Schrével J: Purification and identification of a neutral endopeptidase in *Plasmodium falciparum* schizonts and merozoites 455  
 Gustafsson MKS, Wikgren MC: Development of immunoreactivity to the invertebrate neuropeptide small cardiac peptide B in the tapeworm *Diphyllobothrium dendriticum* 396  
 Gutiérrez-Peña EJ: Scanning electron microscopic study of adults and microfilariae of *Dunnifilaria meningica* (Filarioidea: Onchocercidae) 470
- Haberkorn A → Mehlhorn H  
 Haberkorn A → Schmahl G  
 Hänel H → Raether W  
 Halton DW → Mahendrasingam S  
 Hassan T → Nurelhuda IEM  
 Hecker H → Rudin W  
 Heidrich H-G → Grellier P  
 Hermens CC → Schetters TPM  
 Hernández AG, Payares G, Misle A, Dag-ger F: The heterogeneity of *Leishmania* cell-surface antigens 583  
 Heydorn AO → Diesing L  
 Heydorn AO → Ghaffar FA  
 Hilderson H → Vercruysse J  
 Hinoue H → Sugiyama H  
 Hoffmann R → El-Matbouli M  
 Hofmann J → Raether W  
 Hommel M → Chadwick CJ  
 Horii Y, Ohashi M, Fujita K, Nakanishi H, Ishii A: A comparative study on eosinophil and neutrophil chemotactic activities of various helminth parasites 76  
 Horiuchi T → Sugiyama H  
 Hüther AM, Zhang Y, Sauer A, Parnham MJ: Antimalarial properties of ebselen 353  
 Hutchison WM → Ferguson DJP
- Ibrahim JB → Kamis AB
- Igarashi M → Omata Y  
 Iijima T → Matsui T  
 Iijima T → Morii T  
 Iseki M, Maekawa T, Moriya K, Uni S, Takada S: Infectivity of *Cryptosporidium muris* (strain RN 66) in various laboratory animals 218  
 Ishii A → Horii Y
- Jenni L → Schweizer J  
 Jones A → Southgate VR  
 Jouault T → Pérez O
- Kadipasaoglu AK, Bilge FH: Partial characterization of the adsorbed protein layer on *Dirofilaria immitis* (Nematoda) cuticle 554  
 Kalinna B, Becker M, Geyer E: Immuno-electrophoretic analyses of antigens shared by the vesicular fluid and cyst wall of *Taenia crassiceps* and *Taenia saginata* metacystodes 568  
 Kalvelage H, Möckl T, Gothe R: Exposure of unfed *Rhipicephalus evertsi* *micriticus* adults to single-frequency acoustic waves 663  
 Kamata Y → Sugiyama H  
 Kamis AB, Ibrahim JB: Effects of testosterone on blood leukocytes in *Plasmodium berghei*-infected mice 611  
 Kassai T, Takáts C, Fok É, Redl P: Activity of luxabendazole against liver flukes, gastrointestinal roundworms, and lungworms in naturally infected sheep 14  
 Katahira J → Sugiyama H  
 Kawamoto F, Shozawa A, Kumada N, Kojima K: Possible roles of cAMP and Ca<sup>2+</sup> in the regulation of miracidial transformation in *Schistosoma mansoni* 368  
 Kawanabe M, Nojima H, Uchikawa R: Transmammary transmission of *Strongyloides ratti* 50  
 Kelly C → Knight M  
 Klein MJ → Richard J  
 Knaap WPW van der → Dikkeboom R  
 Knight M, Kelly C, Rodrigues V, Yi X, Wamachi A, Smithers SR, Simpson AJG: A cDNA clone encoding part of the major 25000-dalton surface membrane antigen of adult *Schistosoma mansoni* 280  
 Knowles RJ → Southgate VR  
 Kobayashi F → Matsui T  
 Kobayashi F → Morii T  
 König W → Dorzok U  
 Koie M: On the morphology and life history of *Lecithaster gibbosus* (Rudolphi, 1802) Lühe, 1901 (Digenea, Hemiuroidea) 361  
 Kojima K → Kawamoto F  
 Kon VB, Papadimitriou JM, Robertson TA, Warton A: Quantitation of concanavalin A and wheat germ agglutinin binding by two strains of *Trichomonas vaginalis* of differing pathogenicity using gold particle-conjugated lectins 7  
 Kozaki S → Sugiyama H  
 Kretschmer RR, Castro EM, Rico G, Pacheco G, Noriega R, Arellano J: Further characterization of a human monocyte locomotion inhibitory factor produced by axenically grown *Entamoeba histolytica* 245  
 Krungkrai J, Webster HK, Yuthavong Y: Characterization of cobalamin-dependent methionine synthase purified from the human malarial parasite, *Plasmodium falciparum* 512  
 Kumada N → Kawamoto F  
 Kumaratilake LM → Eckert J
- Lapierre J → Dupouy-Camet J  
 Lastre M → Pérez O  
 Lauwers F → Verheyen A  
 Leiro J, Santamarina MT, Sernández L, Sanmartín ML, Ubeira FM: The effect of cyclosporine A on murine trichinellosis 330  
 Lejonc JL → Fourestié V  
 Liance M → Fourestié V  
 Liu TP, Myrick GR: Deformities in the spore of *Nosema apis* as induced by itraconazole 498  
 Lowndes HE → Fiori MG
- Mackenstedt U, Brockelman CR, Mehlhorn H, Raether W: Comparative morphology of human and animal malaria parasites. I. Host-parasite interface 528  
 Maekawa T → Iseki M  
 Maes L → Verheyen A  
 Mahendrasingam S, Fairweather I, Halton DW: Spermatogenesis and the fine structure of the mature spermatozoon in the free proglottis of *Trilocularia acanthiaevulgaris* (Cestoda, Tetrathyllidea) 287  
 Maraghi S, Molyneux DH: Studies on cross-immunity in *Herpetosoma* trypanosomes of *Microtus*, *Clethrionomys* and *Apodemus* 175  
 Marsboom R → Verheyen A  
 Marzouk M, Abdel-Ghaffar F, Mosaad MN: Effects of infection with *Eimeria labbeana* on some serum constituents and liver glycogen in the palm dove (*Streptopelia senegalensis aegyptiaca*) 183  
 Matsui T, Morii T, Iijima T, Kobayashi F, Fujino T: Transformation of oocysts from several coccidian species by heat treatment 264  
 Matsui T → Morii T  
 Matsumoto Y → Yoshikawa H  
 Matuschka F-R: Studies on the life cycle of *Sarcocystis dugesii* in the Madeiran wall lizard *Podarcis* (syn. *Lacerta*) *dugesii* 73  
 Matuschka FR → Diesing L  
 Mayer R → Grellier P  
 McCullough JS, Fairweather I: The fine structure and possible functions of scolex gland cells in *Trilocularia acanthiaevulgaris* (Cestoda, Tetrathyllidea) 575  
 Mehlhorn H, Schmahl G, Haberkorn A:



- Toltrazuril effective against a broad spectrum of protozoan parasites 64
- Mehlhorn H → Ghaffar FA  
 Mehlhorn H → Mackenstedt U  
 Mehlhorn H → Schmahl G  
 Menrath M → Turner CMR  
 Michael SA → Eckert J  
 Misle A → Hernández AG  
 Mizuno N → Takahashi Y  
 Möckl T → Kalvelage H  
 Molyneux DH → Maraghi S  
 Molyneux DH → Mungomba LM  
 Monsigny M → Grellier P  
 Morii T, Matsui T, Kobayashi F, Iijima T: Some aspects of *Leucocytozoon caulleryi* reinfection in chickens 194  
 Morii T → Matsui T  
 Moriya K → Iseki M  
 Morris DL → Richards KS  
 Morondo-Pelayo MP → Diez-Baños P  
 Mosaad MN → Marzouk M  
 Mouahid A → Fournier A  
 Mungomba LM, Molyneux DH, Wallbanks KR: Hostparasite relationship of *Trypanosoma corvi* in *Ornithomyia avicularia* 167  
 Muñoz E → Ortega-Pierres G  
 Myrick GR → Liu TP
- Naga H → Fourestié V  
 Nakabayashi T → Omata Y  
 Nakabayashi T → Ono T  
 Nakamura T → Endo T  
 Nakamura T → Yasuda T  
 Nakanishi H → Horii Y  
 Nazareth Meirelles M de → Araújo-Jorge TC  
 Neyrinck JL → Pérez O  
 Nishiyama M → Akao S  
 Nojima H → Kawanabe M  
 Noriega R → Kretschmer RR  
 Núñez-Gutiérrez MC → Diez-Baños P  
 Nurelhuda IEM, Elowni EE, Hassan T: Anthelmintic activity of praziquantel on *Raillietina tetragona* in chickens 655
- Odaibo AB → Christensen NØ  
 Ogiji EE → Aisien SO  
 Okamoto T → Yamane Y  
 Oliver G: Complement to the anatomy of the oncomiracidium of *Serranicotyle labracis* (Van Beneden and Hesse 1863) (Monogenea, Polyopisthocotylea). Originality of its osmoregulatory system 627  
 Omata Y, Igarashi M, Ramos MI, Nakabayashi T: *Toxoplasma gondii*: Antigenic differences between endozoites and cystozoites defined by monoclonal antibodies 189  
 Ono T, Nakabayashi T: Gametocytogenesis induction in cultured *Plasmodium falciparum* and further development of the gametocytes to ookinetes in prolonged culture 348  
 Oordt BEP van, Tielens AGM, Bergh SG van den: The energy metabolism of *Schistosoma mansoni* during its development in the hamster 31
- Op den Kamp JAF → Vial HJ  
 Ortega-Pierres G, Muñoz E, Vázquez RC, Parkhouse RME: Pretection against *Trichinella spiralis* induced by purified stage-specific surface antigens of infective larvae 563  
 Osaki Y → Yamane Y  
 Owhashi M → Horii Y
- Pacheco G → Kretschmer RR  
 Pages JR → Fournier A  
 Pairon-Pennachioni M → Fourestié V  
 Palmas C → Bortoletti G  
 Papadimitriou JM → Kon VB  
 Parkhouse RME → Ortega-Pierres G  
 Parnham MJ → Hüther AM  
 Payares G → Hernández AG  
 Pérez O, Lastre M, Capron M, Neyrinck JL, Jouault T, Bazin H, Capron A: Total and specific IgE in serum and cerebrospinal fluid of rats and guinea pigs infected with *Angiostrongylus cantonensis* 476  
 Pernin P, Grelaud G: Application of isoenzymatic typing to the identification of nonaxenic strains of *Naegleria* (Protozoa, Rhizopoda) 595  
 Peters W → Conradt U  
 Pettersen E → Ferguson DJP  
 Phillips RS → Trenholme KR  
 Picard I → Grellier P  
 Pindak FF → Demeš P  
 Pipano E → Diesing L  
 Pohl U, Dubremetz JF, Entzeroth R: Characterization and immunolocalization of the protein contents of micro-nemes of *Sarcocystis muris* cystozoites (Protozoa, Apicomplexa) 199  
 Potgieter F → Diesing L
- Raether W, Enders B, Hofmann J, Schwannecke U, Seidenath H, Hänel H, Uphoff M: Antimalarial activity of new floxacrine-related acridinedione derivatives: studies on blood schizontocidal action of potential candidates against *P. berghei* in mice and *P. falciparum* in vivo and in vitro 619  
 Raether W, Seidenath H, Hofmann J: Potent antibacterial fluoroquinolones with marked activity against *Leishmania donovani* in vivo 412  
 Raether W → Mackenstedt U  
 Ramadan MM, Saoud MFA, Aly AH: *Caprimolgorchis jhai* sp. nov. (Trematoda: Lecithodendriidae), an intestinal parasite of the Egyptian house sparrow 28  
 Ramos MI → Omata Y  
 Rauss A → Fourestié V  
 Redl P → Kassai T  
 Referee acknowledgement 250  
 Reiner G, Zahner H: Reactivity of IgE in human *Schistosoma mansoni* sera to *S. mansoni* antigens 392  
 Richard J, Klein MJ, Stoeckel ME: Neural and glandular localisation of substance P in *Echinostoma caproni* (Trematoda-Digenea) 641
- Richards KS, Morris DL: Evidence for the development of human hydatid daughter cysts from protoscoleces 333  
 Richards KS → Rogan MT  
 Rico G → Kretschmer RR  
 Robertson TA → Kon VB  
 Rodrigues V → Knight M  
 Röttcher D → Zwegarth E  
 Rogan MT, Richards KS: Development of the tegument of *Echinococcus granulosus* (Cestoda) protoscoleces during cystic differentiation in vivo 299  
 Rollinson D → Vercruysse J  
 Rondelaud D, Barthe D: Reconstitution anormale de la glande digestive chez *Lymanaea glabra* Müller et *L. truncatula* Müller infestées par *Fasciola hepatica* L. 165  
 Roudot-Thoraval F → Fourestié V  
 Roussilhon C, Fandeur T, Dedet J-P: Long-term protection of squirrel monkeys (*Saimiri sciureus*) against *Plasmodium falciparum* challenge inoculations after various time intervals 118  
 Rudin W, Hecker H: Lectin-binding sites in the midgut of the mosquitoes *Anopheles stephensi* Liston and *Aedes aegypti* L. (Diptera: Culicidae) 268  
 Rupprecht H, Becker W, Schwanbek A: Alterations in hemolymph components in *Biomphalaria glabrata* during long-term infection with *Schistosoma mansoni* 233  
 Rutti B, Brossard M: Repetitive detection by immunoblotting of an integumental 25-kDa antigen in *Ixodes ricinus* and a corresponding 20-kDa antigen in *Rhipicephalus appendiculatus* with sera of pluriinfested mice and rabbits 325
- Sänger I → Zahner H  
 Sampaio EP → Araújo-Jorge TC  
 Sanmartín ML → Leiro J  
 Santamarina MT → Leiro J  
 Saoud MFA → Ramadan MM  
 Sauer A → Hüther AM  
 Saxena JK → Singh RP  
 Saz HJ → Srivastava VML  
 Schaub GA, Schnitker A: Influence of *Blastocrithidia triatomae* (Trypanosomatidae) on the reduviid bug *Triatoma infestans*: alterations in the Malpighian tubules 88  
 Schettters TPM, Hermesen CC, Van Zon AAJC, Eling WMC: Stage-specific proteins of *Plasmodium berghei*-infected red blood cells detected by antibodies of immune mouse serum 69  
 Schmahl G, Mehlhorn H: Treatment of fish parasites. 4. Effects of sym. triazinone (toltrazuril) on Monogenea 132  
 Schmahl G, Mehlhorn H, Haberkorn A: Sym. triazinone (toltrazuril) effective against fish-parasitizing Monogenea 67  
 Schmahl G, Taraschewski H, Mehlhorn H: Chemotherapy of fish parasites 503  
 Schmahl G → Mehlhorn H  
 Schmidt J: Expression of glycoconjugates



- on normally developing and immunologically impaired *Hymenolepis diminuta* 155
- Schnitker A → Schaub GA
- Schrével J → Grellier P
- Schwanbek A → Rupprecht H
- Schwanncke U → Raether W
- Schweizer J, Tait A, Jenni L: The timing and frequency of hybrid formation in African trypanosomes during cyclical transmission 98
- Seibold G → Zahner H
- Seidenath H → Raether W
- Semoff S → Chadwick CJ
- Sernández L → Leiro J
- Shiwaku K → Yamane Y
- Shozawa A → Kawamoto F
- Shukla OP → Singh RP
- Simonsen PE → Christensen NØ
- Simpson AJG → Knight M
- Singh RP, Saxena JK, Ghatak S, Shukla OP, Wittich R-M, Walter RD: Polyamine metabolism in *Setaria cervi*, the bovine filarial worm 311
- Skuce PJ, Fairweather I: *Fasciola hepatica*: the effect of the sodium ionophore monensin on the adult tegument 223
- Smith NC: The role of free oxygen radicals in the expulsion of primary infections of *Nippostrongylus brasiliensis* 423
- Smithers SR → Knight M
- Soares MJ, Souto-Pradón T, Bonaldo MC, Goldenberg S, Souza W de: A stereological study of the differentiation process in *Trypanosoma cruzi* 522
- Soll MD, Carmichael IH: Efficacy of injectable ivermectin against the itch mite (*Psorergates ovis*) of sheep 81
- Southgate VR, Brown DS, Warlow A, Knowles RJ, Jones A: The influence of *Calicophoron microbothrium* on the susceptibility of *Bulinus tropicus* to *Schistosoma bovis* 381
- Southgate VR → Vercruysse J
- Souto-Pradón T → Soares MJ
- Souza W de → Soares MJ
- Srivastava VML, Saz HJ, Bruyn B de: Comparisons of glucose and amino acid use in adults and microfilariae of *Brugia pahangi* 1
- Stevens WJ → Anthoons JAMS
- Stoeckel ME → Richard J
- Sugiyama H, Hinoue H, Katahira J, Horieuchi T, Tomimura T, Kamata Y, Kozaki S: Production of monoclonal antibody to characterize the antigen of *Paragonimus westermani* 144
- Suzuki M → Waki S
- Tait A → Schweizer J
- Tait A → Turner CMR
- Takada S → Iseki M
- Takagi T → Waki S
- Takahashi Y, Uno T, Furuki J, Yamada S, Araki T: The morphology of *Trichinella spiralis*: ultrastructural study of the mid- and hindgut of the muscle larvae 19
- Takahashi Y, Uno T, Mizuno N, Yamada S, Araki T: Ultrastructural localization of antigenic substances in *Trichinella spiralis* 316
- Takahashi Y, Uno T, Yagi J, Yamada S, Araki T: Morphology of the alimentary tract of *Trichinella spiralis* muscle larvae with emphasis on the esophagus 42
- Takáts C → Kassai T
- Tanaka M → Akao S
- Taraschewski H → Schmahl G
- Thanomsub BW, Fucharoen S, Brockelman CR, Bhisutthibhan J: Effects of thalassaemic serum on the in vitro development of the malarial parasite *Plasmodium falciparum* 212
- Thompson RCA → Eckert J
- Thompson RCA → Worbes H
- Thuet MJ → Vial HJ
- Tielens AGM → Oordt BEP van
- Tijnagel JMGH → Dikkeboom R
- Tomavo S, Dubremetz J-F, Entzeroth R: Characterization of a surface antigen of *Eimeria nieschulzi* (Apicomplexa, Eimeriidae) sporozoites 343
- Tomimura T → Sugiyama H
- Touassem R → Fournier A
- Trenholme KR, Phillips RS: The use of murine feeder cells in the cultivation of *Plasmodium falciparum* asexual blood stages 518
- Turner CMR, Menrath M, Tait A: Life-cycle-stage- and stock-specific labelling by monoclonal antibodies of *Trypanosoma brucei* procyclic forms 414
- Ubeira FM → Leiro J
- Uchikawa R → Kawanabe M
- Uni S → Iseki M
- Uno T → Takahashi Y
- Uphoff M → Raether W
- Van der Schaft PH → Vial HJ
- Van Marck EAE → Anthoons JAMS
- Vanparijs O → Verheyen A
- Van Zon AAJC → Schetters TPM
- Vázquez RC → Ortega-Pierres G
- Vercruysse J, Southgate VR, Rollinson D, Hilderson H: Experimental chemotherapy of *Schistosoma curassoni* in mice 559
- Verheyen A, Maes L, Coussement W, Vanparijs O, Lauwers F, Vlamincx E, Marsboom R: Ultrastructural evaluation of the effects of diclazuril on the endogenous stages of *Eimeria maxima* and *E. brunetti* in experimentally inoculated chickens 604
- Vial HJ, Van der Schaft PH, Beaumelle BD, Thuet MJ, Op den Kamp JAF: Improved isolation of *Plasmodium knowlesi*-infected erythrocyte host-cell membrane on polycationic beads 419
- Vlamincx E → Verheyen A
- Waki S, Takagi T, Suzuki M: Acquisition of protective immunity in mice through infection with an attenuated isolate and its failure in parent virulent *Plasmodium berghei* 614
- Wall T de → Diesing L
- Wallbanks KR → Mungomba LM
- Walter RD → Singh RP
- Wamachi A → Knight M
- Warlow A → Southgate VR
- Warton A → Kon VB
- Webb RA, Eklove H: Demonstration of intense glutamate-like immunoreactivity in the longitudinal nerve cords of the cestode *Hymenolepis diminuta* 545
- Webster HK → Krungkrai J
- Wells DJ → Demeš P
- Wikgren MC → Gustafsson MKS
- Wiser MF: *Plasmodium* antigens external to the parasite but within the infected erythrocyte 206
- Wittich R-M → Singh RP
- Worbes H, Thompson RCA, Eckert J: Occurrence of the cattle strain of *Echinococcus granulosus* in the German Democratic Republic 495
- Yagi J → Takahashi Y
- Yagita K → Endo T
- Yagita K → Yasuda T
- Yamada M → Yoshikawa H
- Yamada S → Takahashi Y
- Yamakami Y → Akao S
- Yamane Y, Bylund G, Abe K, Osaki Y, Okamoto T: Scanning electron microscopic study of four *Diphyllobothrium* species 238
- Yamane Y, Shiwaku K, Abe K, Osaki Y, Okamoto T: The taxonomic differences of embryonic hooks in *Diphyllobothrium nihonkaiense*, *D. latum* and *D. dendriticum* 549
- Yasuda T, Yagita K, Nakamura T, Endo T: Immunocytochemical localization of actin in *Toxoplasma gondii* 107
- Yasuda T → Endo T
- Yi X → Knight M
- Yoshida Y → Yoshikawa H
- Yoshikawa H, Yamada M, Matsumoto Y, Yoshida Y: Variations in egg size of *Trichuris trichiura* 649
- Yuthavong Y → Krungkrai J
- Zahner H, Sängler I, Chatterjee KH, Seibold G: Altered immune response (humoral and delayed-type hypersensitivity reactions) to sheep red blood cells in the course of experimental filarial infections (*Litomosoides carinii*, *Brugia malayi*, *Acanthocheilonema viteae*) of *Mastomys natalensis* 401
- Zahner H → Reiner G
- Zhang Y → Hüther AM
- Zweygarth E, Röttcher D: Efficacy of experimental trypanocidal compounds against a multiple drug-resistant *Trypanosoma brucei brucei* stock in mice 178
- Indexed in *Current Contents*  
Abstracted in *Helminthological Abstracts*  
*Series A* and *Protozoological Abstracts*